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1 [JANUS: towards robust and malicious resilient routing in hybrid wireless networks](#)

Bogdan Carbunar, Ioanis Ioannidis, Cristina Nita-Rotaru

October 2004 **WiSe '04: Proceedings of the 3rd ACM workshop on Wireless security**

**Publisher:** ACM

Full text available: [pdf \(169.26 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 69, Citation Count: 1

In this paper we investigate and provide solutions for security threats in the context of hybrid networks consisting of a cellular base station and mobile devices equipped with dual cellular and ad-hoc (802.11b) cards. The cellular connection is used ...

**Keywords:** hybrid wireless networks, routing, security

## 2 [The design of PaMaNet the Paderborn mobile ad-hoc network](#)

 Christian Schindelhauer, Stefan Böttcher, Franz Rammig

October 2004 **MobiWac '04: Proceedings of the second international workshop on Mobility management & wireless access protocols**

**Publisher:** ACM

Full text available:  [pdf\(563.13 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 47, Citation Count: 1

Wireless connectivity is state of the art for local area networks. Currently, most W-LAN networks rely on a centralized design with access points routing all inner and outbound traffic. These access points are intrinsic communication bottlenecks. Mobile ...


**Keywords:** XML-database, egoistic caching, mobile ad hoc network, peer-to-peer network

## 3 [Constant density spanners for wireless ad-hoc networks](#)

 Kishore Kothapalli, Christian Scheideler, Melih Onus, Andrea Richa

July 2005 **SPAA '05: Proceedings of the seventeenth annual ACM symposium on Parallelism in algorithms and architectures**

**Publisher:** ACM

Full text available:  [pdf\(160.16 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 66, Citation Count: 0


An important problem for wireless ad hoc networks has been to design overlay networks that allow time- and energy-efficient routing. Many local-control strategies for maintaining such overlay networks have already been suggested, but most of them ...

**Keywords:** ad hoc networks, dominating set, self-stabilization, spanner

## 4 [GrooveSim: a topography-accurate simulator for geographic routing in vehicular networks](#)

 Rahul Mangharam, Daniel S. Weller, Daniel D. Stancil, Ragunathan Rajkumar, Jayendra S. Parikh  
September 2005 **VANET '05: Proceedings of the 2nd ACM international workshop on Vehicular ad hoc networks**

**Publisher:** ACM

Full text available:  [pdf\(2.21 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 18, Downloads (12 Months): 185, Citation Count: 0

Vehicles equipped with wireless communication devices are poised to deliver vital services in the form of safety alerts, traffic congestion probing and on-road commercial applications. Tools to evaluate the performance of vehicular networks are a fundamental ...

**Keywords:** multi-hop wireless networks, vehicular networking modeling and simulation

## 5 The design and implementation of an intentional naming system



William Adjie-Winoto, Elliot Schwartz, Hari Balakrishnan, Jeremy Lilley  
December 1999 **ACM SIGOPS Operating Systems Review**, Volume 33 Issue 5

**Publisher:** ACM

Full text available: [pdf\(1.77 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 202, Citation Count: 85

This paper presents the design and implementation of the Intentional Naming System (INS), a resource discovery and service location system for dynamic and mobile networks of devices and computers. Such environments require a naming system that is (i) ...

## 6 The design and implementation of an intentional naming system



William Adjie-Winoto, Elliot Schwartz, Hari Balakrishnan, Jeremy Lilley  
December 1999 **SOSP '99: Proceedings of the seventeenth ACM symposium on Operating systems principles**

**Publisher:** ACM

Full text available: [pdf\(1.77 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 202, Citation Count: 85

This paper presents the design and implementation of the Intentional Naming System (INS), a resource discovery and service location system for dynamic and mobile networks of devices and computers. Such environments require a naming system that is (i) ...

## 7 e-QoS: energy-aware QoS for application sessions across multiple protocol domains in mobile computing



Hanping Lufei, Weisong Shi  
August 2006 **QShine '06: Proceedings of the 3rd international conference on Quality of service in heterogeneous wired/wireless networks**

**Publisher:** ACM

Full text available: [pdf\(367.72 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 55, Citation Count: 0

In this paper we propose a novel energy-aware QoS model, *e-QoS*, for application sessions that might across multiple protocol domains. The model provides the QoS guarantee by dynamically selecting and adapting application protocols. To the best ...

**Keywords:** application sessions, energy-aware, multiple application domains, protocol adaptation, protocol domain, quality of service, session lifetime

## 8 System support for pervasive applications



Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas Anderson, Brian Bershad, Gaetano Borriello, Steven Gribble, David Wetherall

November 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 4

**Publisher:** ACM

Full text available: pdf (1.82 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 30, Downloads (12 Months): 302, Citation Count: 5

Pervasive computing provides an attractive vision for the future of computing. Computational power will be available everywhere. Mobile and stationary devices will dynamically connect and coordinate to seamlessly help people in accomplishing their tasks. ...

**Keywords:** Asynchronous events, checkpointing, discovery, logic/operation pattern, migration, one-world, pervasive computing, structured I/O, tuples, ubiquitous computing

## 9 A mechanism for host mobility management supporting application awareness



Arjan Peddemors, Hans Zandbelt, Mortaza Bargh

June 2004 **MobiSys '04: Proceedings of the 2nd international conference on Mobile systems, applications, and services**

**Publisher:** ACM

Full text available: pdf (499.48 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 77, Citation Count: 0

Many approaches exist today that address the issues that arise when a mobile node changes its point(s) of attachment to the Internet. Mobile IP takes care of host mobility at the IP layer; others at the transport layer (Mobile SCTP) or at the application ...

**Keywords:** application awareness, host mobility, mobility management

## 10 Persistent personal names for globally connected mobile devices

Bryan Ford, Jacob Strauss, Chris Lesniewski-Laas, Sean Rhea, Frans Kaashoek, Robert Morris  
November 2006 **OSDI '06: Proceedings of the 7th symposium on Operating systems design and implementation**

**Publisher:** USENIX Association


Full text available: pdf (1.16 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 43, Citation Count: 0

The *Unmanaged Internet Architecture* (UIA) provides zero-configuration connectivity among mobile devices through *personal names*. Users assign personal names through an ad hoc device introduction process requiring no central allocation. Once ...

11 [CHI '06 extended abstracts on Human factors in computing systems](#)

 Gary Olson, Robin Jeffries  
April 2006 proceeding


**Publisher:** ACM

Additional Information: [full citation](#), [abstract](#)


**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

Welcome to the CHI 2006 *Extended Abstracts*. We hope that you will enjoy this year's extended abstracts and the changes that we have made. For the first time this year, we encouraged submissions from six different sub-communities of the human-computer ...

12 [Modeling epidemic information dissemination on mobile devices with finite buffers](#)

 Christoph Lindemann, Oliver P. Waldhorst  
June 2005 **SIGMETRICS '05: Proceedings of the 2005 ACM SIGMETRICS international conference on Measurement and modeling of computer systems**

**Publisher:** ACM

Full text available:  [pdf \(444.93 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 133, Citation Count: 1

Epidemic algorithms have recently been proposed as an effective solution for disseminating information in large-scale peer-to-peer (P2P) systems and in mobile ad hoc networks (MANET). In this paper, we present a modeling approach for steady-state analysis ...

**Keywords:** analytical performance modeling, mobile ad hoc networks, peer-to-peer data sharing, performance-oriented design and evaluation studies of distributed systems

13 [Modeling epidemic information dissemination on mobile devices with finite buffers](#)



Christoph Lindemann, Oliver P. Waldhorst

June 2005 **ACM SIGMETRICS Performance Evaluation Review**, Volume 33 Issue 1

**Publisher:** ACM

Full text available: [pdf/444.93](#)  
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Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 133, Citation Count: 1

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**Keywords:** analytical performance modeling, mobile ad hoc networks, peer-to-peer data sharing, performance-oriented design and evaluation studies of distributed systems

14 [iMobile EE: an enterprise mobile service platform](#)

Yih-Farn Chen, Hualie Huang, Rittwik Jana, Trevor Jim, Matti Hiltunen, Sam John, Serban Jora, Radhakrishnan Muthumanickam, Bin Wei

July 2003 **Wireless Networks**, Volume 9 Issue 4

**Publisher:** Kluwer Academic Publishers

Full text available: [pdf/2.90](#)  
[MB](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 18, Downloads (12 Months): 139, Citation Count: 4

iMobile<sup>1</sup> is an enterprise mobile service platform that allows resource-limited mobile devices to communicate with each other and to securely access corporate contents and services. The original iMobile architecture consists of devlets that ...

**Keywords:** content transcoding, middleware, mobile devices, mobile enterprise, mobile multimedia services

15 [Wireless wakeups revisited: energy management for voip over wi-fi smartphones](#)



Yuvraj Agarwal, Ranveer Chandra, Alec Wolman, Paramvir Bahl, Kevin Chin, Rajesh Gupta  
June 2007 **MobiSys '07: Proceedings of the 5th international conference on Mobile systems, applications and services**

**Publisher:** ACM

Full text available: [pdf/1.32](#)  
[MB](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 25, Downloads (12 Months): 390, Citation Count: 0

IP based telephony is rapidly gaining acceptance over traditional means of voice communication. Wireless LANs are also becoming ubiquitous due to their inherent ease of deployment and decreasing costs. In enterprise Wi-Fi environments, VoIP is a compelling ...

**Keywords:** VoIP, Wi-Fi, cellular networks, power management, smartphones

16 SyD: a middleware testbed for collaborative applications over small heterogeneous devices and data stores

Sushil K. Prasad, Vijay Madiseti, Shamkant B. Navathe, Raj Sunderraman, Erdogan Dogdu, Anu Bourgeois, Michael Weeks, Bing Liu, Janaka Balasooriya, Arthi Hariharan, Wanxia Xie, Praveen Madiraju, Srilaxmi Malladi, Raghupathy Sivakumar, Alex Zelikovsky, Yanqing Zhang, Yi Pan, Saied Belkasim

October 2004 **Middleware '04:** Proceedings of the 5th ACM/IFIP/USENIX international conference on Middleware

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  pdf441.55

KB

Additional Information: [full citation](#), [abstract](#), [references](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 79, Citation Count: 0

Developing a collaborative application running on a collection of heterogeneous, possibly mobile, devices, each potentially hosting data stores, using existing middleware technologies such as JXTA, BREW, compact .NET and J2ME requires too many ad-hoc ...


**Keywords:** SyD coordination bonds, application-level QoS, atomic transactions, mobile servers, object and web service coordination

17 Proposed routing for IEEE 802.11s WLAN mesh networks

Michael Bahr

August 2006 **WICON '06:** Proceedings of the 2nd annual international workshop on Wireless internet

**Publisher:** ACM

Full text available:  pdf199.14

KB

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 76, Downloads (12 Months): 877, Citation Count: 0

This paper describes the proposed routing for IEEE 802.11s WLAN mesh networks based on the current draft standard D0.01 from March 2006. IEEE 802.11s defines a new mesh data frame format and an extensibility framework for routing. The default routing ...


**Keywords:** IEEE 802.11, routing, wireless mesh networks

18 EMMA: Epidemic Messaging Middleware for Ad hoc networks

Mirco Musolesi, Cecilia Mascolo, Stephen Hailes

December 2005 **Personal and Ubiquitous Computing**, Volume 10 Issue 1

**Publisher:** Springer-Verlag

Full text available:  [pdf\(265.73 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#)

**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 69, Citation Count: 0

The characteristics of mobile environments, with the possibility of frequent disconnections and fluctuating bandwidth, have forced a rethink of traditional middleware. In particular, the synchronous communication paradigms often employed in standard ...

**Keywords:** Epidemic protocol, Message oriented middleware, Middleware for mobile computing, Mobile ad hoc networks

19 Hycast- podcast discovery in mobile networks

 Adrian Andronache, Matthias R. Brust, Steffen Rothkugel

October 2007 **WMuNeP '07: Proceedings of the 3rd ACM workshop on Wireless multimedia networking and performance modeling**

**Publisher:** ACM

Full text available:  [pdf\(439.89 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 15, Downloads (12 Months): 124, Citation Count: 0

Podcasts are a popular way to provide multimedia information about certain topics. A multitude of podcast servers exist in the Internet, allowing people to subscribe to them. Typically, podcasts are downloaded onto desktop computers and copied on mobile ...

**Keywords:** clustering, content distribution, mobile, multimedia, peer-to-peer, podcast

20 COMBINE: leveraging the power of wireless peers through collaborative downloading

 Ganesh Ananthanarayanan, Venkata N. Padmanabhan, Lenin Ravindranath, Chandramohan A. Thekkath

June 2007 **MobiSys '07: Proceedings of the 5th international conference on Mobile systems, applications and services**

**Publisher:** ACM

Full text available:  [pdf\(358.45 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 239, Citation Count: 0



Mobile devices are increasingly equipped with multiple network interfaces: Wireless Local Area Network (WLAN) interfaces for local connectivity and Wireless Wide Area Network (WWAN) interfaces for wide-area connectivity. The WWAN typically provides much ...

**Keywords:** accounting, battery, collaborative, multi-homed, power

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